

MATERIAL SAFETY DATA SHEET**WINFIELD SOLUTIONS, LLC****PRODUCT NAME(S)****For Emergency Call: Chem Trec: 800-424-9300****N-PaK 28****Effective Date: 04/23/08****I. IDENTIFICATION****CHEMICAL NAME OF PRIMARY COMPONENT(S):** Urea ammonium Nitrate Solution**FORMULA:** N/A**MOLECULAR WEIGHT:** N/A**SYNONYMS:** UAN-28**II. INGREDIENTS/SUMMARY OF HAZARDS**

(H)/INGREDIENT(S)	CAS NUMBER	OSHA HAZARD NON-HAZARD (NH)	PERCENT
Ammonium Nitrate		NH	40.1
Urea		NH	30.5

III. PHYSICAL DATA

SPECIFIC GRAVITY: 1.28 @ 60° F
BOILING POINT: 225° F
FREEZING POINT: N/A
VAPOR PRESSURE: <1 mm Hg @ 100° F
SOLUBILITY IN WATER: Complete
APPEARANCE: Clear liquid
ODOR: slightly pungent odor

IV. FIRE AND EXPLOSION HAZARD DATA**FLASH POINT:** N/A**FLAMMABLE LIMITS IN AIR:** N/A**EXTINGUISHING MEDIA:** UAN is essentially nonflammable**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None**SPECIAL FIRE FIGHTING PROCEDURES:** Wear full protective clothing and self-contained breathing apparatus approved by NIOSH

V. REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID:

MATERIALS TO AVOID: Chlorine and Hypochlorites

HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia and oxides of nitrogen

HAZARDOUS POLYMERIZATION: Will not occur

VI. HEALTH HAZARD DATA/FIRST AID PROCEDURES

TOXICOLOGY DATA:

Acute Oral LD₅₀ (rat): 6,000 mg/kg (males), 3,000 mg/kg (females)

Acute Dermal LD₅₀ (rat): Nonlethal

Acute Inhalation LC₅₀(1hr rat): >20.2 mg/L

Eye Irritation (rabbit): Slight irritant

Dermal Irritation (rabbit): Slight irritant

Dermal Sensitization: Not Determined

EMERGENCY AND FIRST AID PROCEDURES:

Swallowing: If conscious, drink large amounts of water and induce vomiting. Get medical attention.

Skin: Flush skin immediately and thoroughly with water. If irritation persists, get medical attention.

Inhalation: Generally not considered an inhalation hazard.

Eyes: Flush eyes immediately and thoroughly with water for at least 15 minutes. If irritation persists, get medical attention.

VII. PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain and pick up spilled material as soon as possible to minimize environmental contamination.

WASTE DISPOSAL METHOD: Disposal of spilled material should be in accordance with applicable federal, state and local environmental regulatory requirements.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Avoid welding on pipes or tanks which have contained UAN until they have been thoroughly washed out with water. Residual ammonium nitrate may explode under conditions of confinement and high temperature.

VIII. SPECIAL PROTECTION INFORMATION

PROTECTIVE EQUIPMENT SHOULD BE USED DURING THE FOLLOWING PROCEDURES:

- Manufacture or formulation of this product.
- Repair and maintenance of contaminated equipment.
- Clean up of leaks and spills.
- Any other activity that may result in hazardous exposures
- Refer to product label for PPE required for labeled use

RESPIRATORY PROTECTION: None needed

VENTILATION: Local exhaust

PROTECTIVE CLOTHING: Chemical resistant gloves, coveralls and foot coverings.

EYE PROTECTION: Safety goggles

USER SAFETY RECOMMENDATIONS: Safety showers and eye wash should be easily accessible.

IX. REGULATORY STATUS

TSCA INVENTORY STATUS:**TRANSPORTATION STATUS:** Not regulated**DOT INFORMATION:**

Container Capacity	Proper Shipping Name	Hazard Class	Label	Packing Group

X. REFERENCES

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH,
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